Journal of Biogeography

Author Index

Aarssen, L.W., 503
Acebey, A., 1799
Acevedo, P., 1671
Acosta, R., 221
Adams, H.D., 1629
Adler, G.H., 1561
Adler, P.H., 211, 1333
Aguilar, A., 1267
Aguinagalde, I., 329
Alaback, P., 1811
Alerstam, T., 383
Alexandre, A., 311
Ali, A.A., 1659
Alía, R., 595
Allen, L.G., 187
Anderson, N.J., 1993
Anderson, P.M., 833
Androukaki, E., 1267
Antonelis, G., 1267
Aravena, J.C., 879
Argano, R., 1715
Arita, H.T., 961
Aubry, S., 985
Badano, E.I., 221
Baker, A.M., 581
Bakker, J.D., 2083
Barg, J.J., 1827
Barthlott, W., 1107
Basset, Y., 1303
Bastos, A.D.S., 75
Beatty, S.W., 145
Beaty, R.M., 425
Becker, P.D., 99
Bennett, K.D., 407
Bermingham, E., 1835
Berta, A., 1267
Betancourt, J.L., 1085
Beyens, L., 1791
Birks, H.H., 1461
Birks, H.J.B., 1461
Blair Hedges, S., 929
Boecklen, W.J., 1151
Bonnet, V., 985
Boric-Bargetto, D., 1931
Bouvet, J.-M., 1763
Brantley, S.L., 951
Brehm, G., 1621
Bremond, L., 311
Briggs, J.C., 287, 1517
Britton-Davidian, J., 2123
Brooks, D.R., 249, 755, 1291
Brotons, L., 789
Brubaker, L.B., 833
Bruzzone, O., 353
Buchanan, G., 697
Buckley, L.B., 2113
Bull-Hereñu, K., 1129
Bullock, S.H., 127
Bush, M.B., 1301
Butaud, J.-F., 1763
Caiafa, C.F., 1257
Calef, M.P., 863
Camarero, J.J., 1979
Campbell, L.A., 1385
Capela, R., 2123
Carcaillet, C., 1659
Carpenter, C., 999
Carroll, C., 1385
Cartar, R.V., 377
Carvajal, A., 1561
Catalan, J., 2123
Cecca, F., 535
Chang, Y., 2043
Chatzaki, M., 813
Chiambeng, G.Y., 1611
Chidumayo, E.N., 111
Choudhury, A., 645
Chown, S.L., 155
Christman, M.C., 1441
Cizek, L., 1303
Clough, Y., 2007
Cobb, J.R., 187
Cocu, N., 615
Collada, C., 595
Cook, B.D., 581
Cook, L.G., 741
Coppeto, S.A., 565
Cracraft, J., 261, 1409
Crisp, M.D., 741
Crosti, R., 85
Culver, D.C., 1441
Cuq, E., 879
Darrow, K., 1303
Davidar, P., 493
Dawson, M.N., 515
Dayan, T., 369
Debussche, M., 799
DeChaine, E.G., 1943
Deckers, B., 99
Delibes-Mateos, M., 1671
Díaz-Fernández, P., 939
Dinerstein, E., 1107
Diniz-Filho, J.A.F., 1035
Donázar, J.A., 1701
Dullinger, S., 1117
Duminil, J., 329
Dumont, H.J., 1063, 1611
Ebach, M.C., 781
Edwards, M.E., 833
Eggermont, H., 1063
Elvebakk, A., 1161
Englisch, T., 1117
Epstein, H.E., 863
Escudero, M.A., 1671
Esslinger, T.L., 1221
Eyre, M.D., 973
Fajardo, A., 1811
Fernández, M., 203
Fernández, M.H., 903, 1243
Ferrao, A.L., 1291
Fiedler, K., 1621
Fischer, J., 1737
Flinn, K.M., 439
Folgarait, P.J., 353
Fontana, S.L., 719
Forero, M.G., 1701
Fortin, M.-J., 1979
Franklin, W.L., 661
Freudenberger, D., 1353
Friesen, V.L., 1827
Fulé, P.Z., 2083
Fuller, S., 2135
Fyler, C.A., 1267
Gaban-Lima, R., 1409
Gaget, H., 535
Gamache, I., 849
Ganem, G., 2123
Gangoso, L., 1701
Ganzhorn, J.U., 1549
Gaston, K.J., 155
Geiger, E.L., 895
Gentile, G., 1715
Gianoli, E., 221
Gibb, C.E., 1827
Giberson, D.J., 211
Gil, L., 595, 939
Gilbert, L.E., 353
Gilfedder, L., 2015
Gilman, S., 1583
Gintert, B.E., 187
Girvan, M.K., 1827
Gittenberger, E., 1571
Glor, R.E., 929
González, M.E., 1187
González, M.T., 1327, 1539
Goodman, S.M., 1549
Gortazar, C., 1671
Gott, B., 1203
Goward, T., 1209
Grabherr, G., 1117
Gradstein, S.R., 1591, 1799
Graham, C.H., 1371
Graham, G.C., 2145
Grant, M., 697
Gray, S.T., 1085
Grayson, D.K., 2103
Gremmen, N.J.M., 155, 1791
Greve, M., 155
Grigione, M.M., 661
Guerrero, J.C., 1343
Guiot, J., 311
Gutiérrez, A., 1315
Gutiérrez, E., 1979
Habel, J.C., 1489
Halas, D., 249
Hampe, A., 329
Hao, Z., 2043
Harcourt, A.H., 565
Hardy, O.J., 685
Harrington, R., 615
Haugland, J.E., 145
Hawkins, B.A., 1035
He, H.S., 2043
Heaney, L.R., 229
Heikkinen, R.K., 1957
Heino, J., 1971
Henningsson, S.S., 383
Hérault, B., 2069
Hermy, M., 99
Herrando, S., 789
Hicks, S., 407
Hills, L.V., 1043
Hilt, N., 1621
Hingston, M., 1549
Holz, I., 1591
Honnay, O., 99, 2069
Hovestadt, T., 677
Hu, Y., 2043
Huang, S.-F., 1921
Huang, T.-C., 1921
Hughes, J.M., 581
Hugueny, B., 1899
Hullé, M., 615
Humphries, C.J., 781, 1909

Hunter, J.T., 63
Ingólfsson, A., 169
Jackson, S.T., 1085
Jacquemyn, H., 1751
Jansson, R., 2025
Jiménez, P., 939
Johansen, B., 1161
Johnson, S.D., 29
Jones, J., 1827
Jonsell, B., 1453
Juste, J., 1701
Kachvoryan, E.A., 1333
Karlsen, S.R., 1161
Kaupa, B., 1303
Kellermann, J., 1909
Kessler, M., 1799
Khokhlova, I.S., 633
Kier, G., 1107
Kirkpatrick, J.B., 2015
Kleijn, D., 2007
Knapp, S., 3
Kolb, T.E., 1629
Kolbe, J.J., 929
Koppel, K., 1473
Krasnov, B.R., 633
Kreft, H., 1107
Krömer, T., 1799
Kruess, A., 2007
Kua, J., 1303
Küper, W., 1107
Kupfer, J.A., 453
Kurzweil, H., 29
La Sorte, F.A., 1151
Ladd, P.G., 85
Ladiges, P.Y., 1909
Languy, M., 1371
Lara, A., 879
Larsen, E., 1461
Larson, A., 929
Lasso, C.A., 1899
Laughlin, D.C., 2083
Lavergne, S., 799
Lavoyer, T., 535
Lee, P.-F., 1921
Lee, P.-Y., 1139
Leigh, E.G., 493
Leikola, N., 1957
Lemckert, F.L., 397
Lika, K., 1727
Lin, T.-P., 1921
Lindenmayer, D.B., 1737
Linder, H.P., 29
Linsenmair, K.E., 677
Litterski, B., 1221
Liu, K.-b., 709
Lomolino, M.V., 1683
López-de-Heredia, U., 939
Losos, J.B., 929
Lozhkin, A.V., 833
Luckman, B.H., 879
Luff, M.L., 973
Lunt, I.D., 1859
Luoto, M., 1957
Lyford, M.E., 1085
Lymberakis, P., 813
McCarthy, D., 2161
McDowall, R.M., 49
McGlone, M.S., 739
McGuire, A.D., 863
McMaster, R.T., 475
MacPhee, R.D.E., 551
McPherson, G.R., 895
Madden, M.K., 1441
Magnin, F., 985
Mahony, M.J., 397
Marco, J., 1671
Marcussen, T., 1453
Markakis, G., 813
Marks, P.L., 439
Marquet, P.A., 1931
Martijena, N.E., 127
Martin, A.P., 1943
Martín, J.P., 329
Martínez, E.A., 1129
Mateos, M., 775
Mathias, M.L., 2123
Meiri, S., 369
Mendel, L., 2015
Micheneau, C., 1751
Millard, S.C., 1827
Miller, J.D., 453
Miller, S.E., 1303
Miyaki, C.Y., 1409
Mladenoff, D.J., 2043
Mohanty, A., 329
Molina, J., 799
Mora, C., 277
Moreno, C.A., 1539
Morgan-Richards, M., 295
Morrison, R.I.G., 377
Morrone, J.J., 1315
Moser, D., 1117
Mouillot, D., 633
Mulder, C., 1775
Müller, P., 1489
Murray, B.R., 341
Mutke, J., 1107
Muys, B., 99
Mylonas, M., 813, 1727
Nelder, M.P., 1333
Nelson, G., 1909
Newman, R.A., 781
Nicholson, K.E., 929
Nicotra, A.B., 341
Niklfeld, H., 1117
Nilsson, C., 2025
Nordal, I., 1453
Novotny, V., 1303
Nunes, A.C., 2123
Núñez, H.A., 221
Oberdorff, T., 1899
Oliva, M.E., 1327
Osumi, K., 2057
Otte, V., 1221
Page, T.J., 581
Pailler, T., 1751
Palma, R.E., 1931
Palmer, W.A., 2145
Parks, S.A., 565
Parmentier, I., 685
Parsons, R.F., 121
Payette, S., 849
Pearce-Higgins, J., 697
Penman, T.D., 397
Pérez-Ponce de León, G., 645
Pesquero, M.A., 353
Peterson, A.T., 229
Petit, R.J., 329
Peyron, O., 311
Pharo, E.J., 2015
Pignatti, S., 85
Pither, J., 503
Pitkin, L.M., 1621
Playford, J., 2145
Plutzar, C., 1117
Poethke, H.J., 677
Pohlman, C.L., 341
Pondella II, D.J., 187
Pons, P., 789
Porter, S.D., 353
Porzecanski, A.L., 261
Poska, A., 1473
Poulin, R., 633
Preece, R.C., 985
Premoli, A.C., 5
Procheş, Ş., 607
Proto, A.N., 1257
Purcell, L.A., 211
Puyravaud, J.P., 493
Ramalhinho, M.G., 2123
Rasmussen, P., 1993
Real, R., 1343
Reeder, T.W., 1267
Reese, C.A., 709
Regidor, H.A., 221
Renöfält, B.M., 2025
Ribas, C.C., 1409
Ribbens, E., 1979
Ricketts, T.H., 1107
Riddle, B.R., 185, 1507
Rivadeneira, M.M., 203
Rives, F., 1763
Roberts, D.L., 1751
Robertson, D., 697
Robertson, D.R., 277
Robertson, R.J., 1827
Robledo-Arnuncio, J.J., 595
Rodríguez, P., 961
Roiron, P., 1659
Rotenberry, J.T., 1139
Roughgarden, J., 2113
Rounsevell, M.D.A., 615
Rowe, R.J., 1883
Rull, V., 921
Rupp, T.S., 863
Rushton, S.P., 973
Rylander, K.A., 1085
Samyn, Y., 1523
Sauberer, N., 1117
Schlexer, F.V., 1385
Schmidt, M.H., 467
Schmitt, T., 1489
Schneider, D., 1571
Scholtz, C.H., 75
Schwarz, M., 2135
Scott, K.D., 2145
Shao, G., 2043
Shenbrot, G.I., 633
Shepherd, U.L., 951
Shugart, H.H., 863, 1641
Sibold, J.S., 1187
Simberloff, D., 369
Simpson, B.B., 15
Skov, F., 1019
Smith, C.H., 1509
Smith, S.A., 1835
Smith, T.B., 1371
Soeller, S.A., 1035
Soininen, J., 1971
Sole, C.L., 75
Sommer, S., 1549
Spooner, P.G., 1859
Spribille, T., 1209
Squeo, F.A., 1129
Stanganelli, Z., 1257
Stévart, T., 685
Strong, W.L., 1043
Svenning, J.-C., 1019
Tallon, I., 1523
Talon, B., 1659
Tate, J.A., 15
Tatolas, A., 1875
Taylor, A.H., 425

Tedesco, P.A., 1899
Telfer, M.G., 973
Terral, J.-F., 1659
Thuiller, W., 799
Tierney, S., 2135
Towerton, A.L., 397
Trewick, S.A., 295
Triantis, K.A., 1727
Truex, R.L., 1385
Tscharntke, T., 467, 2007
Turner, P.A.M., 2015
Turner, R.M., 127
Udovicic, F., 1909
Uit de Weerd, D.R., 1571
Vallejo Jr, B., 1429
Van de Vijver, B., 1791
Van Wezel, A.P., 1775
Van Wijnen, H.J., 1775
Vardinoyannis, K., 1727
Vargas, J.M., 1343
Vázquez-Domínguez, E., 961
Veblen, T.T., 1187
Veit, M.L., 1827
Vellend, M., 439
Vergani, D., 1257
Verhaegen, D., 1763
Verschuren, D., 1063
Veski, S., 1473
Vicente, J., 1671
Villalba, R., 879
Virkkala, R., 1957
Voultsiadou, E., 1875
Vrba, E.S., 903, 1243
Vrielynck, B., 535
Walsh Jr, J.S., 229
Walsh, S.A., 781
Wardill, T.J., 2145
Waterhouse, T., 697
Watson, J.E.M., 1353
Webb, R.H., 127
Weeks, A., 15
Weiblen, G.D., 1303
Weiser, M.D., 1727
White, D., 1441
Whittaker, R.J., 1353
Williams, D.M., 781
Wojcicki, M., 755
Wolodarsky-Franke, A., 879
Worner, S.P., 615
Wu, M.-J., 1921
Xiaodong, Y., 1641
Zalucki, M., 2145
Zamparo, D., 249
Zapata, M., 1899
Zattara, E.E., 5
Zechmeister, H.G., 1117
Zielinski, W.J., 1385

Journal of Biogeography

Volume 32, 2005

Editor-in-chief:
Robert J. Whittaker

Editors:
David R. Bellwood
Mark B. Bush
Malte C. Ebach
Bradford A. Hawkins
Christopher J. Humphries
P. John D. Lambshead
Robert M. McDowall
Brett R. Riddle
Jonathan P. Sadler
Ole R. Vetaas

Book Review Editor:
Richard Field

Blackwell
Publishing

© 2005 Blackwell Publishing Ltd. Authorization to photocopy items for internal or personal use, or the internal personal use of specific clients, is granted by Blackwell Publishing Ltd for libraries and other users registered with the Copyright Clearance Center (CCC) Transactional Reporting Service, provided that the base fee of $15.00 per copy is paid directly to CCC, 222 Rosewood Drive, Suite 910, Danvers, MA 01973, USA. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Special requests should be addressed to the Editor. 0305-2070/05/£15.00

Editorial Offices:
Blackwell Publishing Ltd, 9600 Garsington Road, Oxford OX4 2DQ, UK
Blackwell Publishing Inc., 350 Main Street, Malden, Massachusetts 02148-5018, USA
Blackwell Publishing Asia, 550 Swanston Street, Carlton South, Victoria 3053, Australia

Other Editorial Offices:
Blackwell Verlag., Kurfürstendamm 57, 10707 Berlin, Germany
Blackwell Munksgaard, 1 Rosenørns Allé, PO Box 227, DK-1502 Copenhagen V, Denmark
Blackwell Publishing KK, NK Building, 3F, 2-8-12 Iwamotocho, Chiyoda-ku, Tokyo 1010032, Japan
Iowa State Press, (A blackwell Publishing Company), 2121 S State Avenue, Ames, IA 50014-8300, USA

Journal of Biogeography

Contents

Volume 32, Issue 1, January 2005

Editorial 1–2

Commentary

S. Knapp: Biogeography – space, form and time 3–4

Space, time and form

E. E. Zattara and A. C. Premoli: Genetic structuring in Andean landlocked populations of *Galaxias maculatus* effects of biogeographic history 5–14

B. B. Simpson, J. A. Tate and A. Weeks: The biogeography of *Hoffmannseggia* (Leguminosae, Caesalpinioideae, Caesalpinieae): a tale of many travels 15–27

H. P. Linder, H. Kurzweil and S. D. Johnson: The Southern African orchid flora: composition, sources and endemism 29–47

R. M. McDowall: Falkland Islands biogeography: converging trajectories in the South Atlantic Ocean 49–62

J. T. Hunter: Phytogeography, range size and richness of Australian endemic *Sauropus* (Euphorbiaceae) 63–73

Patterns and processes

C. L. Sole, C. H. Scholtz and A. D. S. Bastos: Phylogeography of the Namib Desert dung beetles *Scarabaeus* (*Pachysoma*) MacLeay (Coleoptera: Scarabaeidae) 75–84

P. G. Ladd, R. Crosti and S. Pignatti: Vegetative and seedling regeneration after fire in planted Sardinian pinewood compared with that in other areas of Mediterranean-type climate 85–98

B. Deckers, P. D. Becker, O. Honnay, M. Hermy and B. Muys: Sunken roads as habitats for forest plant species in a dynamic agricultural landscape: effects of age and isolation 99–109

E. N. Chidumayo: Effects of climate on the growth of exotic and indigenous trees in central Zambia 111–120

R. F. Parsons: Desert vines: a comparison of Australia with other areas 121–126

S. H. Bullock, N. E. Martijena, R. H. Webb and R. M. Turner: Twentieth century demographic changes in cirio and cardón in Baja California, México 127–143

J. E. Haugland and S. W. Beatty: Vegetation establishment, succession and microsite frost disturbance on glacier forelands within patterned ground chronosequences 145–153

M. Greve, N. J. M. Gremmen, K. J. Gaston and S. L. Chown: Nestedness of Southern Ocean island biotas: ecological perspectives on a biogeographical conundrum 155–168

A. Ingólfsson: Community structure and zonation patterns of rocky shores at high latitudes: an interocean comparison 169–182

Book Reviews 183–184

Volume 32, Issue 2, February 2005

Commentary

B. R. Riddle: Is biogeography emerging from its identity crisis? 185–186

Coastal and island biogeography

D. J. Pondella II, B. E. Gintert, J. R. Cobb and L. G. Allen: Biogeography of the nearshore rocky-reef fishes at the southern and Baja California islands 187–201

M. M. Rivadeneira and M. Fernández: Shifts in southern endpoints of distribution in rocky intertidal species along the south-eastern Pacific coast 203–209

P. H. Adler, D. J. Giberson and L. A. Purcell: Insular black files (Diptera: Simuliidae) of North America: tests of colonization hypotheses 211–220

E. I. Badano, H. A. Regidor, H. A. Núñez, R. Acosta and E. Gianoli: Species richness and structure of ant communities in a dynamic archipelago: effects of island area and age 221–227

L. R. Heaney, J. S. Walsh, Jr and A. T. Peterson: The roles of geological history and colonization abilities in genetic differentiation between mammalian populations in the Philippine archipelago 229–247

Developments in historical biogeography

D. Halas, D. Zamparo and D. R. Brooks: A historical biogeographical protocol for studying biotic diversification by taxon pulses 249–260

A. L. Porzecanski and J. Cracraft: Cladistic analysis of distributions and endemism (CADE): using raw distributions of birds to unravel the biogeography of the South American aridlands 261–275

C. Mora and D. Ross Robertson: Factors shaping the range-size frequency distribution of the endemic fish fauna of the Tropical Eastern Pacific 277–286

J. C. Briggs: The biogeography of otophysan fishes (Ostariophysi: Otophysi): a new appraisal 287–294

S. A. Trewick and M. Morgan-Richards: After the deluge: mitochondrial DNA indicates Miocene radiation and Pliocene adaptation of tree and giant weta (Orthoptera: Anostostomatidae) 295–309

From phytoliths to phorid flies

L. Bremond, A. Alexandre, O. Peyron and J. Guiot: Grass water stress estimated from phytoliths in West Africa 311–327

I. Aguinagalde, A. Hampe, A. Mohanty, J. P. Martín, J. Duminil and R. J. Petit: Effects of life-history traits and species distribution on genetic structure at maternally inherited markers in European trees and shrubs 329–339

C. L. Pohlman, A. B. Nicotra and B. R. Murray: Geographic range size, seedling ecophysiology and phenotypic plasticity in Australian *Acacia* species 341–351

P. J. Folgarait, O. Bruzzone, S. D. Porter, M. A. Pesquero and L. E. Gilbert: Biogeography and macroecology of phorid flies that attack fire ants in south-eastern Brazil and Argentina 353–367

Volume 32, Issue 3, March 2005

Vertebrate responses to climate

S. Meiri, T. Dayan and D. Simberloff: Biogeographical patterns in the Western Palearctic: the fasting-endurance hypothesis and the status of Murphy's rule 369–375

R. V. Cartar and R. I. Guy Morrison: Metabolic correlates of leg length in breeding arctic shorebirds: the cost of getting high 377–382

S. S. Henningsson and T. Alerstam: Patterns and determinants of shorebird species richness in the circumpolar Arctic 383–396

T. D. Penman, M. J. Mahony, A. L. Towerton and F. L. Lemckert: Bioclimatic analysis of disjunct populations of the giant burrowing frog, *Heleioporus australiacus* 397–405

Change detection

K. D. Bennett and S. Hicks: Numerical analysis of surface and fossil pollen spectra from northern Fennoscandia 407–423

A. H. Taylor and R. M. Beaty: Climatic influences on fire regimes in the northern Sierra Nevada mountains, Lake Tahoe Basin, Nevada, USA 425–438

K. M. Flinn, M. Vellend and P. L. Marks: Environmental causes and consequences of forest clearance and agricultural abandonment in central New York, USA 439–452

J. A. Kupfer and J. D. Miller: Wildfire effects and post-fire responses of an invasive mesquite population: the interactive importance of grazing and non-native herbaceous species invasion 457–466

M. H. Schmidt and T. Tscharntke: Landscape context of sheetweb spider (Araneae: Linyphiidae) abundance in cereal fields 467–473

Determinants of diversity

R. T. McMaster: Factors influencing vascular plant diversity on 22 islands off the coast of eastern North America 475–492

P. Davidar, J. P. Puyravaud and E. G. Leigh Jr: Changes in rain forest tree diversity, dominance and rarity across a seasonality gradient in the Western Ghats, India 493–501

J. Pither and L. W. Aarssen: The evolutionary species pool hypothesis and patterns of freshwater diatom diversity along a pH gradient 503–513

M. N. Dawson: Incipient speciation of *Catostylus mosaicus* (Scyphozoa, Rhizostomeae, Catostylidae), comparative phylogeography and biogeography in south-east Australia 515–533

F. Cecca, B. Vrielynck, T. Lavoyer and H. Gaget: Changes in the ammonite taxonomical diversity gradient during the late Jurassic–early Cretaceous 535–547

Book Reviews 549–550

Volume 32, Issue 4, April 2005

From first appearances to regions revisited

Special Paper

R. D. E. MacPhee: 'First' appearances in the Cenozoic land-mammal record of the Greater Antilles: significance and comparison with South American and Antarctic records 551–564

A. H. Harcourt, S. A. Coppeto and S. A. Parks: The distribution–abundance (density) relationship: its form and causes in a tropical mammal order, Primates 565–579

T.J. Page, A.M. Baker, B.D. Cook and J.M. Hughes: Historical transoceanic dispersal of a freshwater shrimp: the colonization of the South Pacific by the genus *Paratya* (Atyidae) 581–593

J. J. Robledo-Arnuncio, C. Collada, R. Alía and L. Gil: Genetic structure of montane isolates of *Pinus sylvestris* L. in a Mediterranean refugial area 595–605

Ş. Procheş: The world's biogeographical regions: cluster analyses based on bat distributions 607–614

Of pests and parasites and guanacos

N. Cocu, R. Harrington, M. D. A. Rounsevell, S. P. Worner and M. Hullé: Geographical location, climate and land use influences on the phenology and numbers of the aphid, *Myzus persicae*, in Europe 615–632

B.R. Krasnov, G.I. Shenbrot, D. Mouillot, I.S. Khokhlova and R. Poulin: Spatial variation in species diversity and composition of flea assemblages in small mammalian hosts: geographical distance or faunal similarity? 633–644

G. Pérez-Ponce de León and A. Choudhury: Biogeography of helminth parasites of freshwater fishes in Mexico: the search for patterns and processes 645–659

W.L. Franklin and M.M. Grigione: The enigma of guanacos in the Falkland Islands: the legacy of John Hamilton 661–675

Spatial patterns of plants and pollen

T. Hovestadt, H. J. Poethke and K. E. Linsenmair: Spatial patterns in species–area relationships and species distribution in a West African forest–savanna mosaic 677–684

I. Parmentier, T. Stévart and O.J. Hardy: The inselberg flora of Atlantic Central Africa. I. Determinants of species assemblages 685–696

G. Buchanan, J. Pearce-Higgins, M. Grant, D. Robertson and T. Waterhouse: Characterization of moorland vegetation and the prediction of bird abundance using remote sensing 697–707

C.A. Reese and K.-b. Liu: A modern pollen rain study from the central Andes region of South America 709–718

S.L. Fontana: Coastal dune vegetation and pollen representation in south Buenos Aires Province, Argentina 719–735

Book Reviews 737–738

Volume 32, Issue 5, May 2005

Rethinking the use of phylogeny in biogeography

Commentary

M. S. McGlone: Goodbye Gondwana 739–740

L. G. Cook and M. D. Crisp: Directional asymmetry of long-distance dispersal and colonization could mislead reconstructions of biogeography 741–754

M. Wojcicki and D. R. Brooks: PACT: an efficient and powerful algorithm for generating area cladograms 755–774

M. Mateos: Comparative phylogeography of livebearing fishes in the genera *Poeciliopsis* and *Poecilia* (Poeciliidae: Cyprinodontiformes) in central Mexico 775–780

M. C. Ebach, C. J. Humphries, R. A. Newman, D. M. Williams and S. A. Walsh: Assumption 2: opaque to intuition? 781–787

Matters Mediterranean

L. Brotons, P. Pons and S. Herrando: Colonization of dynamic Mediterranean landscapes: where do birds come from after fire? 789–798

S. Lavergne, W. Thuiller, J. Molina and M. Debussche: Environmental and human factors influencing rare plant local occurrence, extinction and persistence: a 115-year study in the Mediterranean region 799–811

M. Chatzaki, P. Lymberakis, G. Markakis and M. Mylonas: The distribution of ground spiders (Araneae, Gnaphosidae) along the altitudinal gradient of Crete, Greece: species richness, activity and altitudinal range 813–831

Climate change and disturbance responses

L. B. Brubaker, P. M. Anderson, M. E. Edwards and A. V. Lozhkin: Beringia as a glacial refugium for boreal trees and shrubs: new perspectives from mapped pollen data 833–848

I. Gamache and S. Payette: Latitudinal response of subarctic tree lines to recent climate change in eastern Canada 849–862

M. P. Calef, A. D. McGuire, H. E. Epstein, T. S. Rupp and H. H. Shugart: Analysis of vegetation distribution in Interior Alaska and sensitivity to climate change using a logistic regression approach 863–878

A. Lara, R. Villalba, A. Wolodarsky-Franke, J. C. Aravena, B. H. Luckman and E. Cuq: Spatial and temporal variation in *Nothofagus pumilio* growth at tree line along its latitudinal range (35°40′-55° S) in the Chilean Andes 879–893

E. L. Geiger and G. R. McPherson: Response of semi-desert grasslands invaded by non-native grasses to altered disturbance regimes 895–902

M. H. Fernández and E. S. Vrba: Rapoport effect and biomic specialization in African mammals: revisiting the climatic variability hypothesis 903–918

Errata 919–920

Volume 32, Issue 6, June 2005

Guest Editorial

V. Rull: Biotic diversification in the Guayana Highlands: a proposal 921–927

Islands: sinks or sources?

K. E. Nicholson, R. E. Glor, J. J. Kolbe, A. Larson, S. Blair Hedges and J. B. Losos: Mainland colonization by island lizards 929–938

U. López-de-Heredia, P. Jiménez, P. Díaz-Fernández and L. Gil: The Balearic Islands: a reservoir of cpDNA genetic variation for evergreen oaks 939–949

U. L. Shepherd and S. L. Brantley: Expanding on Watson's framework for classifying patches: when is an island not an island? 951–960

Rapoport's rule, range relationships and diversity gradients

H. T. Arita, P. Rodríguez and E. Vázquez-Domínguez: Continental and regional ranges of North American mammals: Rapoport's rule in real and null worlds 961–971

M. D. Eyre, S. P. Rushton, M. L. Luff and M. G. Telfer: Investigating the relationships between the distribution of British ground beetle species (Coleoptera, Carabidae) and temperature, precipitation and altitude 973–983

S. Aubry, F. Magnin, V. Bonnet and R. C. Preece: Multi-scale altitudinal patterns in species richness of land snail communities in south-eastern France 985–998

C. Carpenter: The environmental control of plant species density on a Himalayan elevation gradient 999–1018

J.-C. Svenning and F. Skov: The relative roles of environment and history as controls of tree species composition and richness in Europe 1019–1033

B. A. Hawkins, J. A. F. Diniz-Filho and S. A. Soeller: Water links the historical and contemporary components of the Australian bird diversity gradient 1035–1042

Developments in palaeoecology

W. L. Strong and L. V. Hills: Late-glacial and Holocene palaeovegetation zonal reconstruction for central and north-central North America 1043–1062

H. Eggermont, D. Verschuren and H. Dumont: Taxonomic diversity and biogeography of Chironomidae (Insecta: Diptera) in lakes of tropical West Africa using subfossil remains extracted from surface sediments 1063–1083

S. T. Jackson, J. L. Betancourt, M. E. Lyford, S. T. Gray and K. A. Rylander: A 40,000-year woodrat-midden record of vegetational and biogeographical dynamics in north-eastern Utah, USA 1085–1106

Volume 32, Issue 7, July 2005

Patterns of diversity in plants and birds

G. Kier, J. Mutke, E. Dinerstein, T. H. Ricketts, W. Küper, H. Kreft and W. Barthlott: Global patterns of plant diversity and floristic knowledge 1107–1116

D. Moser, S. Dullinger, T. Englisch, H. Niklfeld, C. Plutzar, N. Sauberer, H. G. Zechmeister and G. Grabherr: Environmental determinants of vascular plant species richness in the Austrian Alps 1117–1127

K. Bull-Hereñu, E. A. Martínez and F. A. Squeo: Structure and genetic diversity in *Colliguaja odorifera* Mol. (Euphorbiaceae), a shrub subjected to Pleisto-Holocenic natural perturbations in a mediterranean South American region 1129–1138

P.-Y. Lee and J. T. Rotenberry: Relationships between bird species and tree species assemblages in forested habitats of eastern North America 1139–1150

F. A. La Sorte and W. J. Boecklen: Temporal turnover of common species in avian assemblages in North America 1151–1160

Fire, climate and anthropogenic impacts

S. R. Karlsen, A. Elvebakk and B. Johansen: A vegetation-based method to map climatic variation in the arctic–boreal transition area of Finnmark, north-easternmost Norway 1161–1186

M. E. González, T. T. Veblen and J. S. Sibold: Fire history of *Araucaria–Nothofagus* forests in Villarrica National Park, Chile 1187–1202

B. Gott: Aboriginal fire management in south-eastern Australia: aims and frequency 1203–1208

Lichen biogeography

T. Goward and T. Spribille: Lichenological evidence for the recognition of inland rain forests in western North America 1209–1219

V. Otte, T. L. Esslinger and B. Litterski: Global distribution of the European species of the lichen genus *Melanelia* Essl. 1221–1241

Large mammal ecology and biogeography

M. H. Fernández and E. S. Vrba: Body size, biomic specialization and range size of African large mammals 1243–1256

C. F. Caiafa, A. N. Proto, D. Vergani and Z. Stanganelli: Development of individual recognition of female southern elephant seals, *Mirounga leonina*, from Punta Norte Península Valdés, applying principal components analysis 1257–1266

C. A. Fyler, T. W. Reeder, A. Berta, G. Antonelis, A. Aguilar and E. Androukaki: Historical biogeography and phylogeny of monachine seals (Pinnipedia: Phocidae) based on mitochondrial and nuclear DNA data 1267–1279

Correspondence 1281–1286

Book Reviews 1287–1289

Volume 32, Issue 8, August 2005

Guest Editorial

D. R. Brooks and A. L. Ferrao: The historical biogeography of co-evolution: emerging infectious diseases are evolutionary accidents waiting to happen 1291–1299

Commentary

M. B. Bush: Of orogeny, precipitation, precession and parrots 1301–1302

Living with, living on and living in

V. Novotny, S. E. Miller, Y. Basset, L. Cizek, K. Darrow, B. Kaupa, J. Kua and G. D. Weiblen: An altitudinal comparison of caterpillar (Lepidoptera) assemblages on *Ficus* trees in Papua New Guinea 1303–1314

J. J. Morrone and A. Gutiérrez: Do fleas (Insecta: Siphonaptera) parallel their mammal host diversification in the Mexican transition zone? 1315–1325

M. E. Oliva and M. Teresa González: The decay of similarity over geographical distance in parasite communities of marine fishes 1327–1332

M. P. Nelder, P. H. Adler and E. A. Kachvoryan: Do gut symbiotes reflect the endemism of their host black flies (Diptera: Simuliidae) in the Caucasus of Armenia? 1333–1341

Islands and highlands

J. C. Guerrero, J. Mario Vargas and R. Real: A hypothetico-deductive analysis of the environmental factors involved in the current reptile distribution pattern in the Canary Islands 1343–1351

J. E. M. Watson, R. J. Whittaker and D. Freudenberger: Bird community responses to habitat fragmentation: how consistent are they across landscapes? 1353–1370

C. H. Graham, T. B. Smith and M. Languy: Current and historical factors influencing patterns of species richness and turnover of birds in the Gulf of Guinea highlands 1371–1384

W. J. Zielinski, R. L. Truex, F. V. Schlexer, L. A. Campbell and C. Carroll: Historical and contemporary distributions of carnivores in forests of the Sierra Nevada, California, USA 1385–1407

Speciation and endemism

C. C. Ribas, R. Gaban-Lima, C. Y. Miyaki and J. Cracraft: Historical biogeography and diversification within the Neotropical parrot genus *Pionopsitta* (Aves: Psittacidae) 1409–1427

B. Vallejo Jr: Inferring the mode of speciation in Indo-West Pacific *Conus* (Gastropoda: Conidae) 1429–1439

M. C. Christman, D. C. Culver, M. K. Madden and D. White: Patterns of endemism of the eastern North American cave fauna 1441–1452

European palaeoecology and phylogeography

I. Nordal, B. Jonsell and T. Marcussen: *Viola rupestris*: molecular analyses to elucidate postglacial migration in Western Europe 1453–1459

H. H. Birks, E. Larsen and H. J. B. Birks: Did tree-*Betula*, *Pinus* and *Picea* survive the last glaciation along the west coast of Norway? A review of the evidence, in light of Kullman (2002) 1461–1471

S. Veski, K. Koppel and A. Poska: Integrated palaeoecological and historical data in the service of fine-resolution land use and ecological change assessment during the last 1000 years in Rõuge, southern Estonia 1473–1488

J. C. Habel, T. Schmitt and P. Müller: The fourth paradigm pattern of post-glacial range expansion of European terrestrial species: the phylogeography of the Marbled White butterfly (Satyrinae, Lepidoptera) 1489–1497

Correspondence 1499–1500

Book Reviews 1501–1503

Erratum 1505

Volume 32, Issue 9, September 2005

Editorial

B. R. Riddle: The International Biogeography Society and the inaugural Alfred Russel Wallace Award 1507–1508

Guest Editorial: In Celebration of Alfred Russel Wallace

C. H. Smith: Alfred Russel Wallace, past and future 1509–1515

Zoogeography, dispersal and evolution

J. C. Briggs: The marine East Indies: diversity and speciation 1517–1522

Y. Samyn and I. Tallon: Zoogeography of the shallow-water holothuroids of the western Indian Ocean 1523–1538

M. T. González and C. A. Moreno: The distribution of the ectoparasite fauna of *Sebastes capensis* from the southern hemisphere does not correspond with zoogeographical provinces of free-living marine animals 1539–1547

M. Hingston, S. M. Goodman, J. U. Ganzhorn and S. Sommer: Reconstruction of the colonization of southern Madagascar by introduced *Rattus rattus* 1549–1559

A. Carvajal and G. H. Adler: Biogeography of mammals on tropical Pacific islands 1561–1569

D. R. Uit de Weerd, D. Schneider and E. Gittenberger: The provenance of the Greek land snail species *Isabellaria pharsalica*: molecular evidence of recent passive long-distance dispersal 1571–1581

S. Gilman: A test of Brown's principle in the intertidal limpet *Collisella scabra* (Gould, 1846) 1583–1589

Forest biogeography and dynamics

I. Holz and S. Robbert Gradstein: Phytogeography of the bryophyte floras of oak forests and páramo of the Cordillera de Talamanca, Costa Rica 1591–1609

G. Y. Chiambeng and H. J. Dumont: The Branchiopoda (Crustacea: Anomopoda, Ctenopoda and Cyclestherida) of the rain forests of Cameroon, West Africa: low abundances, few endemics and a boreal–tropical disjunction 1611–1620

G. Brehm, L. M. Pitkin, N. Hilt and K. Fiedler: Montane Andean rain forests are a global diversity hotspot of geometrid moths 1621–1627

H. D. Adams and T. E. Kolb: Tree growth response to drought and temperature in a mountain landscape in northern Arizona, USA 1629–1640

European distributional dynamics

Y. Xiaodong and H. H. Shugart: FAREAST: a forest gap model to simulate dynamics and patterns of eastern Eurasian forests 1641–1658

A. A. Ali, C. Carcaillet, B. Talon, P. Roiron and J.-F. Terral: *Pinus cembra* L. (arolla pine), a common tree in the inner French Alps since the early Holocene and above the present tree line: a synthesis based on charcoal data from soils and travertines 1659–1669

P. Acevedo, M. Delibes-Mateos, M. A. Escudero, J. Vicente, J. Marco and C. Gortazar: Environmental constraints in the colonization sequence of roe deer (*Capreolus capreolus* Linnaeus, 1758) across the Iberian Mountains, Spain 1671–1680

Book Reviews 1681–1682

Volume 32, Issue 10, October 2005

Special Paper

M. V. Lomolino: Body size evolution in insular vertebrates: generality of the island rule 1683–1699

Island biogeography

J. A. Donázar, L. Gangoso, M. G. Forero and J. Juste: Présence, richness and extinction of birds of prey in the Mediterranean and Macaronesian islands 1701–1713

G. Gentile and R. Argano: Island biogeography of the Mediterranean sea: the species–area relationship for terrestrial isopods 1715–1726

K. A. Triantis, M. Mylonas, M. D. Weiser, K. Lika and K. Vardinoyannis: Species richness, environmental heterogeneity and area: a case study based on land snails in Skyros archipelago (Aegean Sea, Greece) 1727–1735

J. Fischer and D. B. Lindenmayer: Nestedness in fragmented landscapes: a case study on birds, arboreal marsupials and lizards 1737–1750

H. Jacquemyn, C. Micheneau, D. L. Roberts and T. Pailler: Elevational gradients of species diversity, breeding system and floral traits of orchid species on Réunion Island 1751–1761

J.-F. Butaud, F. Rives, D. Verhaegen and J.-M. Bouvet: Phylogeography of Eastern Polynesian sandalwood (*Santalum insulare*), an endangered tree species from the Pacific: a study based on chloroplast microsatellites 1763–1774

Mostly microscopic

C. Mulder, H. J. Van Wijnen and A. P. Van Wezel: Numerical abundance and biodiversity of below-ground taxocenes along a pH gradient across the Netherlands 1775–1790

B. Van de Vijver, N. J. M. Gremmen and L. Beyens: The genus *Stauroneis* (Bacillariophyceae) in the Antarctic region 1791–1798

New World biogeography – from epiphytes to freshwater fishes

T. Krömer, M. Kessler, S. Robbert Gradstein and A. Acebey: Diversity patterns of vascular epiphytes along an elevational gradient in the Andes 1799–1809

A. Fajardo and P. Alaback: Effects of natural and human disturbances on the dynamics and spatial structure of *Nothofagus glauca* in south-central Chile 1811–1825

J. Jones, C. E. Gibb, S. C. Millard, J. J. Barg, M. Katharine Girvan, M. Lisa Veit, V. L. Friesen and R. J. Robertson: Multiple selection pressures generate adherence to Bergmann's rule in a Neotropical migratory songbird 1827–1833

S. A. Smith and E. Bermingham: The biogeography of lower Mesoamerican freshwater fishes 1835–1854

Book reviews 1855–1856

Announcement 1857

Volume 32, Issue 11, November 2005

Special Paper

I. D. Lunt and P. G. Spooner: Using historical ecology to understand patterns of biodiversity in fragmented agricultural landscapes 1859–1873

Historial insights: the many forms of historial biogeography

E. Voultsiadou and A. Tatolas: The fauna of Greece and adjacent areas in the Age of Homer: evidence from the first written documents of Greek literature 1875–1882

R. J. Rowe: Elevational gradient analyses and the use of historical museum specimens: a cautionary tale 1883–1897

P. A. Tedesco, T. Oberdorff, C. A. Lasso, M. Zapata and B. Hugueny: Evidence of history in explaining diversity patterns in tropical riverine fish 1899–1907

P. Y. Ladiges, J. Kellermann, G. Nelson, C. J. Humphries and F. Udovicic: Historical biogeography of Australian Rhamnaceae, tribe Pomaderreae 1909–1919

M.-J. Wu, S.-F. Huang, T.-C. Huang, P.-F. Lee and T.-P. Lin: Evolution of the *Euphrasia transmorrisonensis* complex (Orobanchaceae) in alpine areas of Taiwan 1921–1929

R. E. Palma, P. A. Marquet and D. Boric-Bargetto: Inter- and intraspecific phylogeography of small mammals in the Atacama Desert and adjacent areas of northern Chile 1931–1941

E. G. DeChaine and A. P. Martin: Historical biogeography of two alpine butterflies in the Rocky Mountains: broad-scale concordance and local-scale discordance 1943–1956

Spatial and temporal dynamics

R. Virkkala, M. Luoto, R. K. Heikkinen and N. Leikola: Distribution patterns of boreal marshland birds: modelling the relationships to land cover and climate 1957–1970

J. Soininen and J. Heino: Relationships between local population persistence, local abundance and regional occupancy of species: distribution patterns of diatoms in boreal streams 1971–1978

J. J. Camarero, E. Gutiérrez, M.-J. Fortin and E. Ribbens: Spatial patterns of tree recruitment in a relict population of *Pinus uncinata*: forest expansion through stratified diffusion 1979–1992

P. Rasmussen and N. J. Anderson: Natural and anthropogenic forcing of aquatic macrophyte development in a shallow Danish lake during the last 7000 years 1993–2005

Diversity patterns and processes

Y. Clough, A. Kruess, D. Kleijn and T. Tscharntke: Spider diversity in cereal fields: comparing factors at local, landscape and regional scales 2007–2014

E. J. Pharo, J. B. Kirkpatrick, L. Gilfedder, L. Mendel and P. A. M. Turner: Predicting bryophyte diversity in grassland and eucalypt-dominated remnants in subhumid Tasmania 2015–2024

B. M. Renöfält, C. Nilsson and R. Jansson: Spatial and temporal patterns of species richness in a riparian landscape 2025–2037

Book Reviews 2039–2040

Erratum 2041

Announcement 2042

Volume 32, Issue 12, December 2005

Plant responses to environmental change

H. S. He, Z. Hao, D. J. Mladenoff, G. Shao, Y. Hu and Y. Chang: Simulating forest ecosystem response to climate warming incorporating spatial effects in north-eastern China 2043–2056

K. Osumi: Reciprocal distribution of two congeneric trees, *Betula platyphylla* var. *japonica* and *Betula maximowicziana*, in a landscape dominated by anthropogenic disturbances in northeastern Japan 2057–2068

B. Hérault and O. Honnay: The relative importance of local, regional and historical factors determining the distribution of plants in fragmented riverine forests: an emergent group approach 2069–2081

D. C. Laughlin, J. D. Bakker and P. Z. Fulé: Understorey plant community structure in lower montane and subalpine forests, Grand Canyon National Park, USA 2083–2102

A global selection

D. K. Grayson: A brief history of Great Basin pikas 2103–2111

L. B. Buckley and J. Roughgarden: Lizard habitat partitioning on islands: the interaction of local and landscape scales 2113–2121

A. C. Nunes, J. Britton-Davidian, J. Catalan, M. G. Ramalhinho, R. Capela, M. L. Mathias and G. Ganem: Influence of physical environmental characteristics and anthropogenic factors on the position and structure of a contact zone between two chromosomal races of the house mouse on the island of Madeira (North Atlantic, Portugal) 2123–2134

S. Fuller, M. Schwarz and S. Tierney: Phylogenetics of the allodapine bee genus *Braunsapis*: historical biogeography and long-range dispersal over water 2135–2144

T. J. Wardill, G. C. Graham, M. Zalucki, W. A. Palmer, J. Playford and K. D. Scott: The importance of species identity in the biocontrol process: identifying the subspecies of *Acacia nilotica* (Leguminosae: Mimosoideae) by genetic distance and the implications for biological control 2145–2159

D. McCarthy: Biogeographical and geological evidence for a smaller, completely-enclosed Pacific Basin in the Late Cretaceous 2161–2177

Correspondence 2179–2188

Book Reviews 2189–2193

Erratum 2194

Author Index 2195–2197